

PD-IM-7448E/A

# **Evaluation Board User Guide**

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#### Reference Documents

- IEEE 802.3af-2003 Standard, DTE Power via MDI
- IEEE802.3at-draft1.0 Standard, DTE Power via MDI
- PD69012 Data Sheet, Catalogue Number 06-0069-058
- PD69000 Data Sheet, Catalogue Number 06-0070-058
- Application Note 175: Layout Design Guidelines for PoE Systems, Catalogue Number 06-0055-080
- Application Note 174: Designing a 48-port Enhanced PoE System (802.3af/802.3at Compliant, UART interface), Catalogue Number 06-0054-080
- Serial Communication Protocol User Guide, Catalogue Number 06-0032-056
- GUI installation User Guide, Catalogue Number 06-0037-056

The above documents can be obtained via Microsemi Customer Support. To access other documents, go to our web site at http://www.microsemi.com/ and under Tech Support\Documentation, and look up the relevant documents.



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# 1 About this Guide

## 1.1 Objectives

This user guide provides both a description and operation procedures for Microsemi's PD-IM-7448 Evaluation Board. This board is used to evaluate the performance of the Enhanced and Auto Mode PoE applications based PD69012 managers.

## 1.2 Audience

This User Guide is intended for qualified personnel, meaning operators and technicians who have a background in basic electronics.

## 1.3 Organization

This Guide is divided into several sections:

Chapter 1	r 1 About this guide describes the objectives audience organization.		
Chapter 2	Introduction gives an over view of the main functions, features, physical characteristics and		
	ordering information.		
Chapter 2	Physical description provides a physical description of the components (switches, jumpers,		
Chapter 5	connectors).		
Chapter 4 Electrical characteristics list the electrical characteristics of the PoE evaluation board			
Chapter 5 Installation describes the installation process.			



# 2 Introduction

Microsemi's PD-IM-7448 evaluation board (see Figure 1 and 2) provides the designer with the needed environment to evaluate the performance and the implementation of PoE applications based on the PD69012 - PoE Manager and the PD69000 - PoE Controller. This board can be configured to support Enhanced and Autoc PoE operational modes. The PD-IM-7448 provides the customer with the ability to apply any PoE application while using different daughter boards (DB) connected to the top of the mother board (MB).

The document details the steps and connection instructions required to install and operate this board.

The Evaluation Board enables PoE designers to evaluate Microsemi's PoE solution with maximum flexibility and ease in configuration.



Figure 1: Mother Board - General View



Figure 2: Daughter Board - General View

# 2.1 Evaluation Board Ordering Information

The following table lists the EB ordering information.

Ordering Number	Description	
PD-DB-7448	48 ports PoE application, four PD69012 managers with the PoE controller PD69000 operating at the Enhanced or Auto mode	

# 2.2 Evaluation Board Features

- Designed to support any PoE DB application (Auto/Enhanced mode, 12/24/48 ports)
- Four gangs (each contains 12 X RJ45 connectors)



- Vin connectors: DC in connector
- Port connection between MB to DB
- Communication and indication interface connection between MB to DB using flat cables
- Isolated USB to I2C interface
- Isolated USB to UART interface
- Isolated RS232 interface
- LED stream interface
- Daisy Chain option: MB can be cascaded to another MB in order to support eight PD69012 with single PoE controller
- External host interface
- External power supplies interface
- Reset push button
- There are no pulse transformers & common mode chocks per port
- Evaluation Board working temperature: 0° to +50° C
- ROHS compliant

## 2.3 Evaluation Board Interfaces & Connections

The board has several interfaces:

- **RJ45**: Running from the MB to the PD (powered device) (J29-J30)
- Ports interface: Ports connection between the MB to the DB
- Vin connectors: DC in (Vmain) connection (J6, J7, J15, J16 and J18)
- Communication and indication: Communication and indication signals transferred from the MB to the DB
- External host: Control and indication signals running between the hosting system to the MB (J4)
- Isolated USB: USB to UART / USB to I2C communication between the hosting system to the MB (U7)
- Isolated RS232: Between the hosting system to the MB (J33)
- Isolated UART: Between the hosting system to the MB (J26)
- LEDs: LED indication to the LED board (J16)
- Daisy chain: MB cascading option (J8)
- External power supplies: 'Power good' signals coming from the power supplies indicating operational/failed power supply (J1)
- Tester: Between the automatic tester and the MB
- BDM: PoE controller burning interface

#### 2.4 Physical Characteristics

Table 1 lists the evaluation board's physical characteristics.

#### **Table 1: Physical Characteristics**

Parameter	Value
Mechanical dimensions	420 x 168 x 30mm (l x w x h)



# **3** Physical Description

# 3.1 Package Contents

Upon opening the Evaluation Board package, verify that all parts itemized in the packing list are included. If any part is missing or seems damaged, contact your local representative or Microsemi's Customer Service Department. Package contents for standard shipments are as follows:

- A GUI software CD
- Power supply cable (from the power supply unit to the MB)
- Power supply cable (from the MB to the DB)
- Two flat cables (16 pin and 30 pin)

## 3.2 Switches and Jumpers

The evaluation board comprises switches and jumpers used to select the desired configuration states of the board. Default configurations are indicated as 'default'.

### 3.2.1 UART Communication Selection

There are three UART communication options:

- UART to USB (connecting USB cable to U7)
- UART to RS232 (connecting RS232 cable to J33)
- UART to UART(connecting UART cable to J26)

Using J11 and J12, these three options can be selected.

Table 2: UART	<b>Communication</b>	Selection
---------------	----------------------	-----------

Switch/Jumper	UART to RS232	UART to USB	UART to UART
J11	N.C	Short from pin "1" to "2"	N.C
J12	Short from pin "1" to "2"	N.C	N.C



Figure 3: UART Communication Selection (J11, J12)



#### 3.2.2 Reset Button

The dedicated Reset push button SW1 (see Figure 4) resets the following DB components:

- PoE controller PD69012
- PoE controller PD69000



Figure 4: Reset Push Button (SW1)

### 3.3 Connectors

The following sections provide a general and detailed description of the board connectors.

#### 3.3.1 Connectors Table

The Evaluation Board's connectors are listed in Table 3.

Number	Connector	Name	Description
1	J29 - J30	RJ45 connectors	48 'RJ45' ports connecting the MB to the Powered Device load
2	J22 - J25	Port connection	Port connection (Vport_pos and Vport_neg) between the MB and the DB implemented by using four connectors
3	J6, J7, J15, J16, J18	Vin connectors	DC in (Vmain) connection used to power the MB and DB Evaluation boards.
4	J2, J3	Communication and indication	Communication (UART, I <sup>2</sup> C and ESPI) and indication signals (reset, disable etc) running between the MB and the DB using flat cables connected to the J2 (PoE domain) and J3 (Host Domain) connectors
5	J4	Isolated External HOST	Control and indication signals running between the hosting system a the MB (isolation circuitry on the daughter board)
6	U7	Isolated USB	The USB communication coming from the hosting system (U7), converted to UART or I <sup>2</sup> C communication and directed to the DB (Isolation circuitry on the daughter board)
7	J33	Isolated RS232	RS232 signal levels coming from the hosting system (J33) and converted to UART signal levels, then directed to the DB (ilsolation circuitry on the daughter board)
8	J26	Isolated UART	UART interface from the hosting system and the MB, then directed to the DB (isolation circuitry on the daughter board)
9	J16	LEDs indication	Port's status presented via the LEDs indication signals running to the LED board
10	J8	Daisy Chaining	Connection between two MBs supporting eight PD69012s using a single PoE Controller
11	J1	External power	'Power Good' indication signals coming from the



Number	Connector	Name	Description
		supplies	power supplies, indicating the operating/failed power supply status. It is also a hot-swap signal for hot swappable PoE applications.
12	J5	Tester	Interface between the automatic tester and the MB
13	J13	BDM	PoE Controller burning interface

#### 3.3.2 Connectors Detailed Explanation

The numbering is in reference to the numbers given in Table 3.

#### 1. RJ45 Connectors (see Figure 5)

There are four dedicated RJ45 connectors; each contains 12 RJ45 ports.

Pin No. (Each RJ45)	Signal Name	Description
4, 5	SPARE - Vport_Pos	The PoE's Positive spare port
7, 8	SPARE - Vport_Neg	The PoE's Negative spare port
1, 2	DATA - Vport_neg	The PoE's negative data port
3, 6	DATA - Vport_neg	The PoE's positive data port

- Manufacturer: FOXCONN
- Manufacture part number: JM371B3-KD10-4F



Figure 5: RJ45 Connectors

#### 2. Port Connection (see)

The Ports Connection (spare\_NEG, spare\_POS, data\_NEG and data\_POS) between the MB's RJ45 and the DB PoE circuitry is utilized by four connectors.

Pin No.	Signal Name	Description
1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45	spare_NEGx	The PoE's negative spare port
2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46	spare_POSx	The PoE's positive spare port
3, 7, 11, 15, 19, 23, 27,31, 35, 39, 43, 47	data_NEGx	The PoE's negative data port
4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48	data_POSx	The PoE's positive data port

Manufacturer: CviLux

Manufacture part number: CH57482M100-PA





Figure 6: Port Connection

#### 3. Vin Connectors (see Figure 7)

DC in (Vmain) connection, used to power the MB and the DB Evaluation Boards. 44 VDC > Vmain> 57 V DC.

#### <u>J6</u>

Pin No.	Signal Name	Description
1-16	Vmain (Vin +)	The positive main voltage (referenced to AGND)

#### <u>J7</u>

Pin No.	Signal Name	Description
1-16	AGND (Vin -)	Analog ground

Manufacturer: CviLux

Manufacture part number: CP01-316130

#### <u>J17</u>

Pin No.	Signal Name	Description
1-8	Vmain (Vin +)	The positive main voltage (referenced to AGND)

## <u>J15</u>

Pin No.	Signal Name	Description
1	Vmain (Vin +)	The positive main voltage (referenced to AGND)
2-8	AGND (Vin -)	Analog ground

### <u>J18</u>

Pin No.	Signal Name	Description
1	Vmain (Vin +)	The positive main voltage (referenced to AGND)
2-8	AGND (Vin -)	Analog ground

Manufacturer: CviLux

Manufacture part number: CI5208P1VOO





Figure 7: Vin Connectors

#### 4. Communication and Indication (see Figure 8)

The communication (UART, I<sup>2</sup>C and ESPI) and indication signals (reset, disable, etc.) run between the MB and the DB using flat cables connected to J2 (PoE domain) and J3 (Host Domain) connectors.

<u>J3</u>

1	xReset_IN_isolated	Reset signal sent from the hosting system
2	xDisable_ports_isolated	Disable signal sent from the hosting system
3	xSystem_ok_isolated	System_ok signal sent from the hosting system
4	RTS	Reserved
5	xInt_out_isolated	Int_out signal sent from the hosting system
6	reserved	Reserved
7	3 3\/iso	3.3 VDC sent from the hosting system (isolated from PoE
'	5_57180	domain), referenced to 'GND_Floating'
8, 13,	GND Floating	The bosting system ground (isolated from PoE domain)
16		
9	UART_Tx_isolated	Tx signal (transmit), direction sent from the PoE controller (3.3V tolerate)
10	UART_Rx_isolated	Rx signal (receive), to the PoE controller (3.3V tolerate)
11	SDA_auto_mode_isolated	I <sup>2</sup> C SDA: data I <sup>2</sup> C signal between the hosting system to PD69012
12	SCL_auto_mode_isolated	I <sup>2</sup> C SCL: clock I <sup>2</sup> C signal between the hosting system to PD69012
14	SDA_enhanced_mode_isolated	I <sup>2</sup> C SDA: data I <sup>2</sup> C signal between the hosting system to PD69000
15	SCL_enhanced_mode_isolated	I <sup>2</sup> C SCL: clock I <sup>2</sup> C signal between the hosting system to PD69000

Manufacturer: CviLux

Manufacture part number: CH74162V100

<u>J2</u>

Pin No.	Signal Name	Description
1	PG0	Power good signal, power supply status indication
2	PG1	Power good signal, power supply status indication
3	PG2	Power good signal, power supply status indication
4	PG3	Power good signal, power supply status indication
5	xReset_IN	Reset signal to the PoE application (used for cascading purposes)
6	xDisable_ports	Disable_ports signal to the PoE application (used for cascading purposes)
7	xPoE_RESET	Reset signal to the PD69012 ICs (used for cascading purposes)
8	xHSWP	Hot Swap control signal, used when the PoE application is hot swappable
9	BKGD	PoE controller burning signal
10, 11, 17, 18, 21, 23, 24, 29	GND_D	Digital ground at the PoE domain
12, 13	Reserved	Reserved



Pin No.	Signal Name	Description
12	SDA_in_auto_mode	I <sup>2</sup> C SDA_in - data I <sup>2</sup> C signal (used for cascading purposes)
14	SDA_out_auto_mode	I <sup>2</sup> C SDA_out - data I <sup>2</sup> C signal (used for cascading purposes)
15	SCL_auto_mode	I <sup>2</sup> C SCL - clock I <sup>2</sup> C signal (used for cascading purposes)
19	LED_SCK	Clock LED signal – running to LED indication board
20	LED_DATA	Data LED signal – running to LED indication board
22	LED_Latch	Latch LED signal – running to LED indication board
25	ESPI_CS	ESPI 'chip select' signal (used for cascading purposes)
26	ESPI_MOSI	ESPI 'master out slave in' signal (used for cascading purposes)
27	ESPI_MISO	ESPI 'master in' slave out' signal (used for cascading purposes)
28	ESPI_SCK	ESPI clock (used for cascading purposes)
30	VPERI	3.3 VDC = Vperi, application's reference voltage (isolated from hosting system domain), referenced to 'GND_D'



Figure 8: Communication and Indication Connectors

- Manufacturer: CviLux
- Manufacture part number: CH74302V100
- 5. Isolated External Host (see Figure 9)

This host transmits control and indication signals beween the hosting system to the MB.

Pin No.	Signal Name	Description
1	xReset_IN_isolated	Reset signal from the hosting system
2	xDisable_ports_isolated	Disable signal from the hosting system
3	xInt_out_isolated	Int_out signal from the hosting system
4	xSystem_ok_isolated	System_ok signal from the hosting system
5	GND_Floating	The hosting system ground (isolated from PoE domain)

- Manufacturer: CviLux
- Manufacture part number: CI25-05P1V00





Figure 9: Isolated External Host

#### 6. Isolated USB Interface (see Figure 10)

This interface supplies USB communication coming from the hosting system (U7), converted to UART or I<sup>2</sup>C communication and directed to the DB (Isolation circuitry on the daughter board).

#### <u>U7</u>

Pin No.	Signal Name	Description
1	Vbus	Voltage supply from the USB bus
2	D-	Dedicated USB signal
3	D+	Dedicated USB signal
4	GND_F	Floating ground

- Manufacturer: Samtec
- Manufacture part number: USB-B-S-S-B-TH



Figure 10: Isolated USB Interface

#### 7. Isolated RS232 (see Figure 11)

RS232 signals level comes from the hosting system and been converted to UART signals levels, then directed to the DB (Isolation circuitry on the daughter board)

Pin No.	Signal Name	Description
1, 4, 6, 7, 8, 9	N.C	Not connected
2	Rx_RS232	Rx RS232 level signal (receive), between the hosting system and the MB
3	Tx_RS232	Tx RS232 level signal (transmit), between the hosting system and the MB
5	GND_F	Floating ground

Manufacturer: Coxoc



Manufacture part number: 205A-09MGPBBA3



Figure 11: Isolated RS232

#### 8. Isolated UART Interface (see Figure 12)

UART interface from the hosting system and the MB, then directed to the DB (Isolation circuitry on the daughter board).

Pin No.	Signal Name	Description
1	3_3V_iso	3.3 VDC coming from the hosting system (isolated from PoE domain), referenced to 'GND_Floating'
2	UART_Rx_isolated	Rx UART level signal (receive), between the hosting system and the MB (3.3 VDC)
3	UART_Tx_isolated	Tx UART level signal (transmit), between the hosting system and the MB (3.3 VDC)
4	GND_F	Floating ground
5	N.C	Not connected

- Manufacturer: CviLux
- Manufacture part number: CI25-05P1V00



Figure 12: Isolated UART Interface

#### **9. LEDs Indication** (see Figure 13)

This interface controls the port status indication LEDs. Using four dedicated signals the LEDs indicate the ports status (on, off, and so on)

Pin No.	Signal Name	Description
1	LED_reset	Reset to the LED board
2	LED_Latch_b	Latch LED signal running to LED indication board ('b' - buffered signal)
7	Vperi pull up	Vperi reference through a 10 Kohm resistor
12	GND_D	Digital ground at the PoE domain
13	LED_SCK_b	Clock LED signal running to LED indication board ('b' - buffered signal)
14	LED_DATA_b	Data LED signal running to LED indication board ('b' - buffered signal)



3, 4, 5,     N.C     Not connected       10, 11     Not connected     Not connected	
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- Manufacturer: CviLux
- Manufacture part number: CH87-142V200



Figure 13: LEDs Indication

### 10. Daisy Chain (see Figure 14)

This interface enables a connection between two MBs destined to support eight PoE managers (PD69012) by a single PoE controller (PD69000).

Pin No.	Signal Name	Description
1	xDisable_ports	Disable_ports signal to the PoE application (used for cascading purposes)
2	xPoE_RESET	Reset signal to the PD69012 ICs (used for cascading purposes)
3	PG0	Power Good' signal, power supply status indication
4	PG1	'Power Good' signal, power supply status indication
5	PG2	'Power Good' signal, power supply status indication
6	PG3	'Power Good' signal, power supply status indication
7, 8, 10, 13, 14, 15, 19	GND_D	Digital ground at PoE domain
9	SDA_in_auto_mode	I <sup>2</sup> C SDA_in - data I <sup>2</sup> C signal (used for cascading purposes)
11	SDA_out_auto_mode	I <sup>2</sup> C SDA_out - data I <sup>2</sup> C signal (used for cascading purposes)
12	SCL_auto_mode	I <sup>2</sup> C SCL - clock I <sup>2</sup> C signal (used for cascading purposes)
16	ESPI_MISO	ESPI 'master in' slave out' signal (used for cascading purposes)
17	ESPI_MOSI	ESPI 'master out slave in' signal (used for cascading purposes)
18	ESPI_CS	ESPI 'chip select' signal (used for cascading purposes)
20	ESPI_SCK	ESPI clock (used for cascading purposes)

Manufacturer: CviLux

Manufacture part number: CH87-142V200





Figure 14: Daisy Chain Interface

### 11. External Power Supplies (see Figure 15)

This interface supplies the 'Power Good' indication signals coming from the power supplies, indicating the operating/failed power supply's status and hot-swap signal for a hot swappable PoE application.

Pin No.	Signal Name	Description
1	PG0	'Power good' signal - power supply status indication
2	PG1	'Power good' signal - power supply status indication
3	PG2	'Power good' signal - power supply status indication
4	PG3	'Power good' signal - power supply status indication
5	GND_D	Digital ground at the PoE domain
6	xHSWP	Hot Swap control signal, indicating that the PoE application is hot swappable

- Manufacturer: CviLux
- Manufacture part number: CI25-06P1V00



Figure 15: External Power Supplies



# **4** Electrical Characteristics

The evaluation board's electrical characteristics are described below:

Parameter	Symbol	Min.	Max.	Units
Main DC supply Vmain		44	57	V
Port Isolation to chassis		-	1.5	kVrms
All communication's Isolation to chassis		-	1.5	kVrms

The MB's electrical characteristics depend on the daughter board to which it is connected.



# 5 Installation

This chapter describes the steps required to install and operate the MB Evaluation board with any DB PoE application.

# 5.1 Preliminary Considerations and Safety Precautions

- Verify that the board's power supply is turned on before the peripheral devices are turned on.
- Connect all the required peripherals prior to powering the board.
- Do not hot swap any components!
- Verify that the board is well configured prior to turning on the power supply.

### 5.2 Initial Configuration

It is highly important to verify that the Evaluation board is properly configured prior to starting any operation. Refer to the *Software GUI User Guide, catalogue number 06-0027-056* for detailed information related to the software and GUI used for Enhance Mode operation.

# 5.3 Hardware Setup

(See and Figure 17)

- 1. Connect DB port connectors to the MB's J29 to J32 connectors.
- 2. Place the DB on top of the MB in such a way that DB's holes are aligned with the appropriate MB spacers.
- 3. Tighten the five screws on top of the DB to the appropriate MB spacers.
- 4. Configure EVB according to required operation mode Auto/Enhanced mode:

Annlightion	Comm	Switches and jumpers							
Application	RS232/USB	I2C(Aardvark*)	J3,5,7,8	SW7	SW2	SW5	SW6	SW1	SW4/SW3
Enhanced mode	Connect RS232 cable to MB J33		Short 1-2	UP	Normal	Down	Enhanced mode	EEPROM normal	up
Auto mode	Connect cable from Aardvark* to MB J14		Short 1-2	UP	Debug	Down	Auto mode	EEPROM normal	up

\*Aardvark – USB to I2C communication adaptor. Any other USB to I2C adaptor can be used.

- 5. Connect the power cable from J15 to the DB.
- 6. Connect the Communication and Indication flat cables as follows:
  - From the MB's J2 flat cable to the DB.
  - From MB's J3 flat cable to the DB.
- 7. Connect a power cable from the power supply to the MB (J18).
- 8. Connect the RS232 cable from the Host PC to the MB's J33 (for UART communication).





Figure 16: Test Setup



Figure 17: Auto Mode Communication Setup

# 5.4 Auto-Mode Patch Burning

Auto mode functionality can be modified using a patch. A relevant patch can be burnt into EEPROM prior to system power up according to the following procedure:

- 1. Connect Aardwark to connector JP1-(EEPROM)
- 2. Turn SW1 to EEPROM Burning Mode position.
- 3. Connect the Power Supply and open PD69012 E2GUI.
- 4. To burn patch file upload relevant patch file using E2 GUI:
  - a. Choose E2 Structs tab.
  - b. Click Load Tx Table button and browse for the relevant file (.xml format).
  - c. Click GUI SEND button while pushing Reset Push button (SW1) on the DB (see Figure 18)

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<u> </u>	2 GUI									- 7 🛛
Se	tup About									
ş	🗾 🛃 🚱									
E23	Structs E2 Comm									
	EEprom H	leader		1	EEprom Data	1 I				
	E2 Header	Value [Hex]		Index	Address (Hex)	Chip Add	RAM Add	Data	Description	^
	EEprom ID	1910	•	1	64	е	1332	Offf	disable all ports	
	Header Struct Version	1		2	6A.	е	31e	ab	open protkey	
	Data Version	а		3	70	е	80	db49	patch 0 - Rise time exit	
	Number of records	9C		4	76	е	82	1ca0	patch 0 - Rise time exit dest	
	Enabled Patches	1f		5	7C	е	84	e89f	patch 1 - class spike exit	
	Data Start Address	64		6	82	е	86	1c00	patch 1 - class spike exit dest	
	Header CheckSum	1143		7	88	е	88	e8f5	patch 2 - cass threshold exit	
				8	8E	е	8a	1c30	patch 2 - class threshold exit dest	
				9	94	е	8c	c897	patch 3 - PM threshold exit	
				10	9A.	е	8e	1c50	patch 3 - PM threshold exit dest	
				11	A0	е	90	de03	patch 4 - Static PM Startup exit	
Current File 9_Alcatel EEPROM.xml				12	A6	е	92	1c70	patch 4 - Static PM Startup exit	
				13	AC	е	94	fe3f	patch 5 - auto int out exit	
Load Tx Table Save Tx Table				14	B2	е	96	1d20	patch 5 - auto int out exit dest	<b>~</b>
		Data CheckSum	(	)	0	E491	Checksum	Delete selected row	Delete last struct Table	]
Specify Directory name: Create H Create H Create H Send   C:\Documents and Settings\tester_amsg\Desktop Image: Create H File Send										
	Connected SPI 2000	DKHz						Online	Rx 💿 Tx 💿	

Figure 18: E2 GUI

- 5. Verify proper burning:
  - a. Choose the E2 Comm tab
  - b. Click the Read button and make sure burnt data is correct.
- 6. Once verification is completed, return to Initial Configuration.



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#### **Revision History**

Revision Level / Date	Para. Affected	Description
0.1 / 21 / 03/ 2008		Initial revision
1.1 / 21 / 04 / 2011		5 Installation
1.2 / March 04 2014		Updating EVB P/N to PD-IM-7448

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